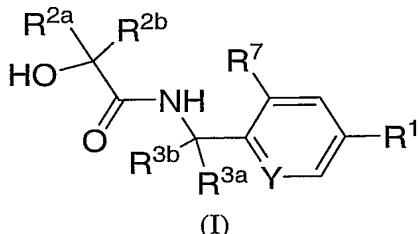


WHAT IS CLAIMED IS:

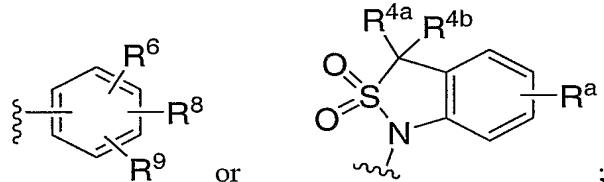
1. A compound of formula (I) and pharmaceutically acceptable salts thereof



wherein

Y is CH or N;

10 R¹ is



15 R^{2a} is selected from (1) a group selected from R^a, (2) (CH₂)_nNR^bC(O)R^a, (3) (CH₂)_nNR^bSO₂R^d, (4) (CH₂)_nNR^bCO₂R^a, (5) (CH₂)_k-heterocycle optionally substituted with 1 to 3 groups independently selected from halogen, nitro, cyano, OR^a, SR^a, C₁₋₄ alkyl and C₁₋₃ haloalkyl wherein said heterocycle is (a) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms wherein said ring is optionally benzo-fused; or (b) a 6-membered heteroaromatic ring containing from 1 to 3 ring nitrogen atoms and N-oxides thereof, wherein said ring is optionally benzo-fused, (6) (CH₂)_kCO₂R^a, and (7) (CH₂)_kC(O)NR^bR^c,

20 R^{2b} is OH or a group selected from R^{2a}; or

25 R^{2a} and R^{2b} together with the carbon atom to which they are attached form a 3- to 7-membered carbocyclic ring optionally substituted with 1 to 4 groups independently selected from halogen, OR^a, C₁₋₄ alkyl and C₁₋₄ haloalkyl;

R^{3a} and R^{3b} are independently selected from hydrogen, C₁₋₄ alkyl, and C₁₋₄ haloalkyl;

R^{4a} and R^{4b} are independently selected from hydrogen and halogen;

R⁶ is selected from (1) C₁₋₈ alkyl optionally substituted with 1-5 groups independently selected from halogen, nitro, cyano, COR^a, CO₂R^a, C(O)NR^bR^c, OR^a, OC(O)R^a, SR^a, SO₂R^d, S(O)R^d, NR^bR^c,

NR^bC(O)R^a, NR^bSO₂R^d, and NR^bCO₂R^a, (2) C₃₋₈ cycloalkyl, (3) C₂₋₈ alkenyl optionally substituted with CO₂R^a, (4) halogen, (5) cyano, (6) nitro, (7) NR^bRC, (8) NR^bC(O)R^a, (9) NR^bCO₂R^a, (10) NR^bC(O)NR^bRC, (11) NR^bC(O)NR^bCO₂R^a, (12) NR^bSO₂R^d, (13) CO₂R^a, (14) COR^a, (15) C(O)NR^bRC, (16) C(O)NHOR^a, (17) C(=NOR^a)R^a, (18) C(=NOR^a)NR^bRC, (19) OR^a, (20) OC(O)R^a, (21) S(O)_vR^d, (22) SO₂NR^bRC, (23) optionally substituted heterocycle where the heterocycle is (a) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms, (b) a 6-membered heteroaromatic ring having 1 to 3 ring N atoms, (c) 4,5-dihydro-oxazolyl or (d) 4,5-dihydro-1,2,4-oxadiazolyl, and wherein said substituent is 1 to 3 groups independently selected from C₁₋₄ alkyl optionally substituted with 1 to 5 halogen atoms, OR^a or OC(O)R^a, (24) phenyl optionally substituted with 1 to 3 groups independently selected from halogen, nitro, cyano, OR^a, SR^a, C₁₋₄ alkyl and C₁₋₄ haloalkyl, and (25) OSO₂R^d;

R⁷ is selected from hydrogen and halogen;

R⁸ and R⁹ are independently selected from hydrogen and a group from R⁶; with the proviso that not more than one of R⁶, R⁸, and R⁹ is a heterocycle;

R^a is selected from (1) hydrogen, (2) C₁₋₇ alkyl optionally substituted with 1 to 5 halogen atoms, OH, SH, O-C₁₋₄alkyl, or S-C₁₋₄alkyl, (3) (CH₂)_k-phenyl optionally substituted with 1 to 3 groups independently selected from halogen, cyano, nitro, OH, C₁₋₄ alkyloxy, C₃₋₆ cycloalkyl, C₁₋₄ alkyl and C₁₋₄haloalkyl, and (4) C₃₋₆ cycloalkyl;

R^b and R^c are independently selected from (1) hydrogen, (2) C₁₋₄ alkyl optionally substituted with 1 to 5 groups independently selected from halogen, amino, CO₂R^a, OR^a, mono-C₁₋₄alkylamino, and di-C₁₋₄alkylamino, (3) (CH₂)_k-phenyl optionally substituted with 1 to 3 groups selected from halogen, cyano, nitro, OR^a, CO₂R^a, C₃₋₆ cycloalkyl, C₁₋₄ alkyl and C₁₋₄haloalkyl, and (4) C₃₋₆ cycloalkyl, or R^b and R^c together with the nitrogen atom to which they are attached form a 4-, 5-, or 6-membered ring optionally containing an additional heteroatom selected from NRe, O, S, S(O) and S(O)₂;

R^d is selected from (1) C₁₋₄ alkyl, (2) C₁₋₄haloalkyl, (3) C₁₋₄ alkyloxy, (4) (CH₂)_k-phenyl optionally substituted with 1 to 3 groups selected from halogen, cyano, nitro, OR^a, CO₂R^a, C₃₋₆ cycloalkyl, C₁₋₄ alkyl and C₁₋₄haloalkyl, (5) pyridyl, and (6) pyridyl N-oxide;

Re is selected from hydrogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C(O)H and C(O)C₁₋₄alkyl;

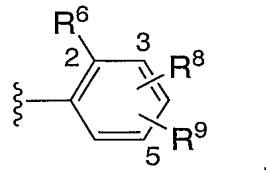
n is 1, 2, or 3;

k is 0, 1, 2, 3, or 4; and

v is 0, 1, or 2.

2. A compound of Claim 1 wherein R^{2a}, R^{2b} and the carbon atom to which they are attached form a 3- to 7-membered carbocyclic ring optionally substituted with 1 to 4 groups independently selected from halogen, OR^a, C₁₋₄ alkyl and C₁₋₄ haloalkyl.

5 3. A compound of Claim 1 wherein R¹ is

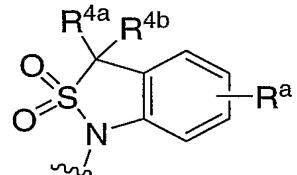


wherein R⁶, R⁸ and R⁹ are as defined in Claim 1.

10 4. A compound of Claim 3 wherein R⁶ is selected from (1) -CO₂-C₁₋₄alkyl, (2) C₁₋₄alkoxy, and (3) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms, said ring being optionally substituted with a C₁₋₄alkyl group.

15 5. A compound of Claim 4 wherein R⁸ is hydrogen or 3-halo, and R⁹ is hydrogen or 5-halo.

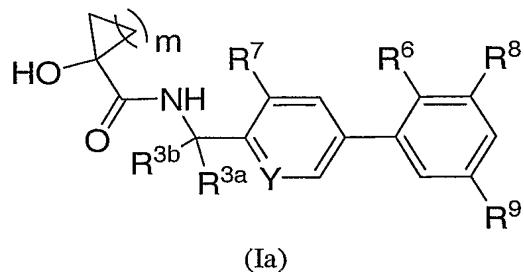
6. A compound of Claim 1 wherein R¹ is



20 wherein R^{4a}, R^{4b} and R^a are as defined in Claim 1.

7. A compound of Claim 6 wherein R^{4a} and R^{4b} are each fluoro.

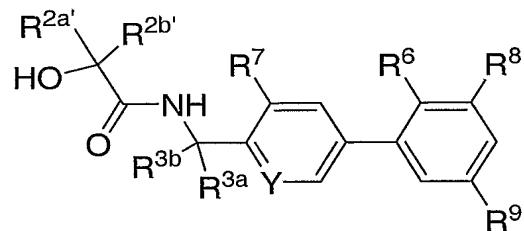
25 8. A compound of Claim 1 having the formula (Ia) and pharmaceutically acceptable salts thereof:



wherein m is 1 to 5; Y is N or CH; one of R^{3a} and R^{3b} is hydrogen and the other is hydrogen or methyl; 5 R⁷ is hydrogen or fluorine; R⁶ is selected from (1) -CO₂-C₁-4alkyl, (2) C₁-4alkoxy optionally substituted with 1 to 5 halogen atoms, and (3) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms, said ring being optionally substituted with a C₁-4alkyl group; and R⁸ and R⁹ are independently hydrogen or halogen.

10

9. A compound of Claim 1 having the formula Ib and pharmaceutically acceptable salts thereof:



15

where R^{3a}, R^{3b}, R⁶, R⁷, R⁸ and R⁹ are as defined in Claim 1, and R^{2a'} and R^{2b'} are independently selected from (1) hydrogen, (2) C₁-7 alkyl optionally substituted with 1 to 5 halogen atoms, SH, OH, S-C₁-4alkyl or OC₁-4alkyl, (3) (CH₂)_k-phenyl optionally substituted with 1 to 3 groups independently selected from halogen, cyano, nitro, OH, C₁-4 alkyloxy, C₃-6 cycloalkyl, C₁-4 alkyl and C₁-4haloalkyl, 20 (4) C₃-6 cycloalkyl, (5) (CH₂)_k-pyridyl, and (6) (CH₂)_k-indolyl.

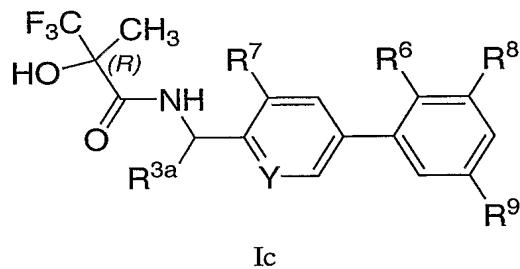
10. A compound of Claim 9 wherein R^{2a'} and R^{2b'} are independently C₁-7alkyl optionally substituted with 1 to 5 halogen atoms.

25

11. A compound of Claim 10 wherein one of R^{3a} and R^{3b} is hydrogen and the other is hydrogen or methyl; R⁷ is hydrogen, chlorine or fluorine; R⁶ is selected from (1) -CO₂-C₁₋₄alkyl, (2) C₁₋₄alkoxy optionally substituted with 1 to 5 halogen atoms, and (3) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms, said ring being optionally substituted with a C₁₋₄alkyl group; and R⁸ and R⁹ are independently hydrogen or halogen.

12. 12. A compound of Claim 1 having the formula Ic and pharmaceutically acceptable salts thereof:

10



15 wherein Y is N or CH; R⁷ is H, chlorine or fluorine; R^{3a} is H or methyl; R⁶ is selected from (1) -CO₂-C₁₋₄alkyl, (2) C₁₋₄alkoxy, (3) C₁₋₄haloalkyloxy, and (4) a 5-membered heteroaromatic ring having a ring heteroatom selected from N, O and S, and optionally having up to 3 additional ring nitrogen atoms, said ring being optionally substituted with a C₁₋₄alkyl group; and R⁸ and R⁹ are independently hydrogen or halogen.

20 13. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

25 14. A method for the treatment or prevention of a condition mediated by bradykinin B1 receptor in a mammal which comprises administering to said mammal a therapeutically effective amount of a compound of Claim 1.

15. A method for the treatment or prevention of pain in a mammal which comprises administering to said mammal a therapeutically effective amount of a compound of Claim 1.

16. A method for the treatment or prevention of pain selected from acute pain, inflammatory pain and neuropathic pain in a mammal which comprises administering to said mammal a therapeutically effective amount of a compound of Claim 1.

5 17. Use of a compound of Claim 1 or a pharmaceutically acceptable salt thereof for the manufacture of a medicament for the treatment or prevention of diseases or conditions mediated by bradykinin B1 receptor.

10 18. Use of Claim 17 wherein said diseases or conditions are acute pain, inflammatory pain and neuropathic pain.